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NOTICE OF ALLOWANCE AND FEE(S) DUE

28393.

7590

02/03/2005

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005 EXAMINER
NGUYEN, PATRICIA T

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PAPER NUMBER

ART UNIT

DATE MAILED: 02/03/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015.887	12/17/2001	Hongwei Wang	1875.1260001	7291	

TITLE OF INVENTION: DIFFERENTIAL AMPLIFIER WITH LARGE INPUT COMMON MODE SIGNAL RANGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	05/03/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSU ĽΕ Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

(703) 746-4000

appropriate. All further cor indicated unless corrected t maintenance fee notification	respondence including the local below or directed otherwise as.	Patent, advance ordin Block 1, by (a)	ders and notifi	ication of maintenance fees we new correspondence address;	ill be mailed to the current	correspondence address as
	CE ADDRESS (Note: Use Block 1 for	any change of address)		Fee(s) Transmittal. The papers. Each additional	mailing can only be used for is certificate cannot be used all paper, such as an assignment of mailing or transmission.	for any other accompanying
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STERNE, KESSLER, GOLDSTEIN & FOX P.L. 1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005			C.	Cer I hereby certify that th States Postal Service v addressed to the Mai	tificate of Mailing or Trans is Fee(s) Transmittal is bein vith sufficient postage for fir I Stop ISSUE FEE address TO (703) 746-4000, on the o	mission g deposited with the United st class mail in an envelope above, or being facsimile
, .				transmitted to the USP	TO (703) 746-4000, on the o	
	·					(Depositor's name)
						(Signature)
						(Date)
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nonprovisional	NO	\$1400	1	\$300	\$1700	05/03/2005
EXAM	IINER	ART UN	IT	CLASS-SUBCLASS		
NGUYEN, I	PATRICIA T	2817	=	330-253000		
1. Change of correspondence CFR 1.363).	e address or indication of "F	ee Address" (37	_	ing on the patent front page, li	•	
	dence address (or Change of 22) attached.	Соптевропеенсе	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,			
			(2) the name of a single firm (having as a member a			
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT	(print or type)		
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appe Γa substitute fo	ar on the patent. If an assign or filing an assignment.	nee is identified below, the o	locument has been filed for
(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)						
Diseas shoots the ammonwists		mica (will not be no	intad on the ne	itent): 🗖 Individual 📮 C	omoration or other private gr	oun entity
4a. The following fee(s) are			. Payment of F		orporation of other private gr	oup entity — Government
Issue Fee	cheloseu.	-10	A check in the amount of the fee(s) is enclosed.			
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies			The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
5 Character Party Character	/f		Deposit Acco	unt Number	(enclose an extra c	copy of this form).
	(from status indicated above MALL ENTITY status. See	•	b. Applica	ant is no longer claiming SMA	LL ENTITY status. See 37 C	CFR 1.27(g)(2).
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Issued is required to apply the Issu	ue Fee and Publicate will not be accepted ent and Trademark	tion Fee (if any I from anyone Office.	y) or to re-apply any previousl other than the applicant; a reg	y paid issue fee to the applic istered attorney or agent; or t	ation identified above. he assignee or other party in
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				o obtain or retain a benefit by ection is estimated to take 12 on the individual case. Any co	the public which is to file (an	nd by the USPTO to process)
submitting the completed a	pplication form to the USPT	O. Time will vary	depending up	on the individual case. Any co	omments on the amount of the	ime you require to complete

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/015,887	12/17/2001	Hongwei Wang	1875.1260001	7291
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	SLER, GOLDSTEIN	NGUYEN, PATRICIA T		
1100 NEW YOR WASHINGTON			ART UNIT	PAPER NUMBER
			2817	
			DATE MAILED: 02/03/200	•

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 90 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 90 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			H:T			
2	Application No.	Applicant(s)				
	10/015,887	WANG ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Patricia T Nguyen	2817				
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due o	ed course. THIS			
1. \boxtimes This communication is responsive to <u>amendment filed 8/30</u>	<u>0/2004</u> .					
2. The allowed claim(s) is/are 2,5-11 and 19-21.						
3. The drawings filed on are accepted by the Examiner	r.					
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have an accordance of the priority documents have an accordance of the priority documents have an accordance of the priority documents have a copies of t	been received. been received in Application No		ion from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) \boxtimes including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date $\underline{2}$.						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(ngs in the front (not the d).	back) of			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PT0	D-152)			
Notice of Preferences Gled (175 GGZ) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	, ,	,			
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat					
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	wance			
of Biological Material	9. Other					

Application/Control Number: 10/015,887

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DETAILED ACTION

Allowable Subject Matter

Claims 2, 5-11, 19-21 are allowed.

The following is an examiner's statement of reasons for allowance: prior art does not teach nor render obvious a differential amplifier that has, in combination with other limitations, a differential switch circuit, coupled to said first differential pair and said second differential pair, and capable of controlling a first current flow to said first differential pair and a second current flow to said second differential pair; nor does it have a method of extending an input signal range of a component that receives the input signal that has the step of selecting a subcomponent, from a plurality of subcomponents within the component, to process said level shifted voltage.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T Nguyen whose telephone number is (703) 308-1927. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-309-4940. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTN January 21, 2005

PATRICIA NGUYEN

PRIMARY EXAMINER